



PATENT
TS8066 (US)
YI:EM

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Yukiko Iwata

Date: February 22, 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of)	
KOICHI NUMAZAWA, KAZUSHIGE OHMURA,)	
TAKAHIRO OZAKI, and KEIJI TANAKA)	
Serial No. 10/728,301)	Group Art Unit: 1764
Filed December 4, 2003)	
UREA GREASE COMPOSITION)	February 22, 2005

COMMISSIONER FOR PATENTS
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.56 AND 1.97

It is respectfully requested that the documents listed on the attached Form PTO-1449 be considered by the Patent and Trademark Office in the above-entitled application and made of record therein. Full text copies of the relevant documents are enclosed.

The foreign language documents are discussed in the patent application, provided in the International Search Report, or discussed below.

JP-A-6-330072 describes a urea grease composition having excellent friction characteristics and nonabrasiveness and not causing deterioration of a seal material, in which molybdenum sulfurized dialkyldithiocarbamate and triphenolphosphorothionate are mixed. An abstract is also provided.

JP-A-10-121080 describes a urea grease composition having excellent friction characteristics and nonabrasiveness and not causing deterioration of a seal material, in which

molybdenum sulfurized dialkyldithiocarbamate and triphenyl phosphate are mixed. An abstract is also provided.

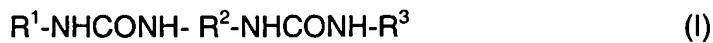
JP-A-2000-328085 describes a grease composition for constant-velocity joint use, in which the grease comprising a base oil and a urea compound as consistency-increasing agent further admixed with (A) an organic molybdenum complex, (B) a sulfur-containing additive selected from sulfurized olefins, extreme pressure additives containing sulfur and phosphorus, ashless dithiocarbamate, polysulfides, thiadiazoles or zinc dithiocarbamate, and (C) a phosphorus-containing additive selected from molybdenum dithiophosphate, zinc dithiophosphate or triphenyl phosphorothionate. An abstract is also provided.

JP-A-8-161326 describes a grease for rolling-element bearing use, which is prepared by compounding a base oil comprising poly- α -olefin oil and alkyl diphenyl ether oil with an alicyclic diurea compound, and adding thereto an extreme pressure additive containing a dithiophosphate as an essential component and further as an additional component a dithiocarbamate alone, a phosphate alone or both. This grease is used at places for lubricating sealed rolling-element bearings of electrical components, such as idler pulley and tension pulley, and other auxiliary equipment, and described as being effective for extending life and against occurrence of unusual noises under low temperature. An abstract is also provided.

JP-A-2003-161326 describes a grease composition for rolling-element bearings used under high temperature, high-speed revolution and high load conditions, in which the lubricating base oil containing a poly- α -olefin synthetic oil or a diphenyl ether synthetic oil is admixed with a urea-type thickener and an organic molybdenum compound. An abstract is also provided.

JP-A-2000-303089 describes a lubricant for ball screw use, in which the lubricant containing a urea compound, an organic nickel compound and an organic molybdenum compound that has a worked consistency of at least 280 as measured after hundred thousand-time mixing in accordance with JIS K2220. An abstract is also provided.

JP-A-2002-88386 describes a grease composition for railway axlebox bearings, in which an organic molybdenum compound is added to a grease composition containing a diurea compound of the following formula (I) as thickener mixed in a poly- α -olefin oil and/or a mineral oil:

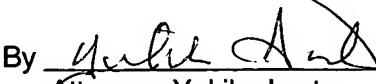


wherein R^1 and R^3 , which may be the same or different, each represents a 6-22C linear alkyl group, and R^2 represents a 6-15C divalent aromatic hydrocarbon group. An abstract is also provided.

The Examiner is requested to indicate consideration of this art on the attached PTO-1449 (Modified) by initialing next to each item submitted by the Applicant.

Respectfully submitted,

KOICHI NUMAZAWA, KAZUSHIGE OHMURA,
TAKAHIRO OZAKI, and KEIJI TANAKA

By 

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FORM PTO-1449 (Modified)

LIST OF INFORMATION PROVIDED
BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO.
TS8066 (US)APPLICATION NUMBER
10/728,301APPLICANT
K. Numazawa et al.FILING DATE
December 4, 2003GROUP ART UNIT
1764

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS							
Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Date if Appropriate
	AA	4,889,647 (Equivalent to JP-5-066435)	12/26/89	Rowan et al.	252	42.7	
	AB						
	AC						
	AD						
	AE						
	AF						

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation Yes	No
	AL	JP-A-1-139696	11/26/87	Japan	C10M	115/08		
	AM	JP-A-2-77494	9/14/88	Japan	C10M	115/08		
	AN	JP-A-6-17080	6/29/92	Japan	C10M	169/02		
	AO	JP-A-3-28299	6/27/89	Japan	C10M	169/02		
	AP	JP-A-2-80493	9/16/88	Japan	C10M	169/06		
	AQ	0,435,745	12/19/90	Europe	C10M	169/00		

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

	AR	
	AS	

FOREIGN SEARCH REPORT (IF IN ENGLISH) CITING ANY OF THE ABOVE REFERENCES

FOREIGN PATENT OFFICE

	AT	International Search Report of 12 May 2004
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EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

1. The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.
2. This is not a representation that a search has been made.

FORM PTO-1449 (Modified)			ATTY. DOCKET NO. TS8066 (US)	APPLICATION NUMBER 10/728,301
LIST OF INFORMATION PROVIDED BY APPLICANT			APPLICANT K. Numazawa et al.	
(Use several sheets if necessary)			FILING DATE December 4, 2003	GROUP ART UNIT 1764

REFERENCE DESIGNATION		U.S. PATENT DOCUMENTS					
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	BA						
	BB						
	BC						
	BD						
	BE						
	BF						
	BG						

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation Yes No
	BJ	JP-A-3-243696	2/22/90	Japan	C10M	115/08	
	BK	JP-A-58-185693	4/23/82	Japan	C10M	5/20	
	BL	JP-A-2-004895	6/23/88	Japan	C10M	115/08	
	BM	JP-A-3-190996	12/20/89	Japan	C10M	115/08	
	BN	JP-A-3-231993	2/8/90	Japan	C10M	115/08	
	BO	JP-5-066435	3/19/93	Japan	G02F	1/35	

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

	BR	
	BS	

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Examiner Initial		Document Number	Date	Patentee	Class	Subclass	Filing Date If Appropriate
	CA						
	CB						
	CC						
	CD						
	CE						
	CF						
	CG						
	CH						

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation Yes	No
	CJ	JP-A-6-330072	11/29/94	Japan	C10M	169/02		
	CK	JP-A-10-121080	5/12/98	Japan	C10M	141/12		
	CL	JP-A-2000-328085	11/28/00	Japan	C10M	141/12		
	CM	JP-A-8-176578	7/9/96	Japan	C10M	169/00		
	CN	JP-A-2003-161326	6/6/03	Japan	F16C	33/66		
	CO	JP-A-2000-303089	10/31/00	Japan	C10M	169/06		
	CP	JP-A-2002-88386	3/27/02	Japan	C10M	169/00		

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	CS	

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